**Automated statistical products for CJARS data providers**

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# CJARS

**Criminal Justice Administrative Records System**

## Automated Production System for Statistical Products for Data Providers

### Main project

- **Goal:**
  - Create a national collection of criminal justice microdata for statistical and research purposes
- **Benefit:**
  - Improving the Bureau's data linkage infrastructure

### CDF project

- **Motivation:**
  - Acknowledge data-providing agencies as stakeholders

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# How can this be done?

**Problem:**

What is a scalable way to return something of value to data providers?

**Solution:**

Automated report production system

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# Challenges & methods

**Challenge #1**
Prioritizing disclosure review

**Solution:**
Automated noise-scaling & infusion

**Challenge #2**
Scalability

**Solution:**
Parallelization
DASK

Data Providers

CJARS Database

Report production

Disclosure Review

Report dissemination

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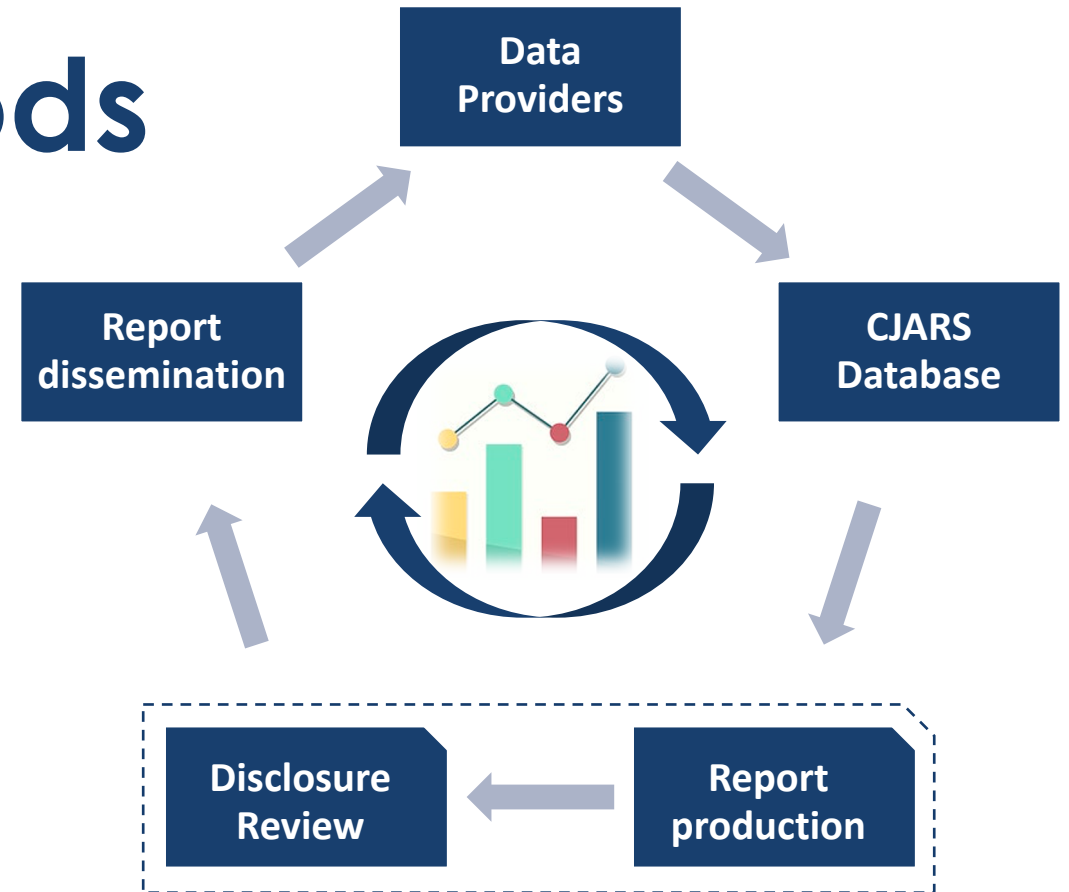
# CDF Project benefits

## Efficiency

- **In production…**
  - 3000+ counties across the US
- **…and dissemination**
  - Metadata to facilitate disclosure review

## Sustainability

- **An integral link**
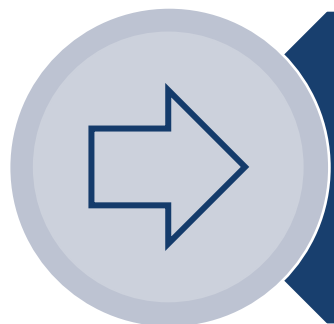  - Supports long-term strategy to provide enough value to all stakeholders

## Title 13

- **Improved**:
  - Operations
  - Coverage
  - Measurement

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# Project status

**Complete**

Automated program that generated formatted reports

**Advancing**

Data quality issue identification

## Caseloads Report

This report contains aggregate caseload statistics for incarceration cases in Michigan.

### Socio-demographic statistics

Table 1: Socio-demographic trends, Male cases

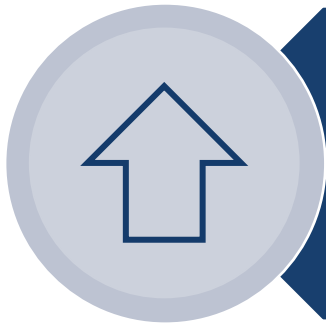|      | Male_% | Male_avg_age | Male_Asian_% | Male_Black_% | Male_Hispanic_% | Male_White_% |
|------|--------|--------------|--------------|--------------|-----------------|--------------|
| 2012 | 75     | 33           | 0            | 16           | 6.67            | 68           |
| 2013 | 67.74  | 33           | 1.48         | 19.19        | 13.29           | 54.62        |
| 2014 | 69.44  | 34           | 1.44         | 20.16        | 11.52           | 59.04        |
| 2015 | 68     | 34           | 1.47         | 22.06        | 11.76           | 51.47        |
| 2016 | 69     | 33.5         | 0            | 20.29        | 11.59           | 55.07        |
| 2017 | 67     | 33.5         | 1.49         | 20.9         | 14.93           | 47.76        |
| 2018 | 69.12  | 34           | 1.45         | 21.7         | 11.57           | 49.19        |

### Trends in socio-demographic profiles of cases



70
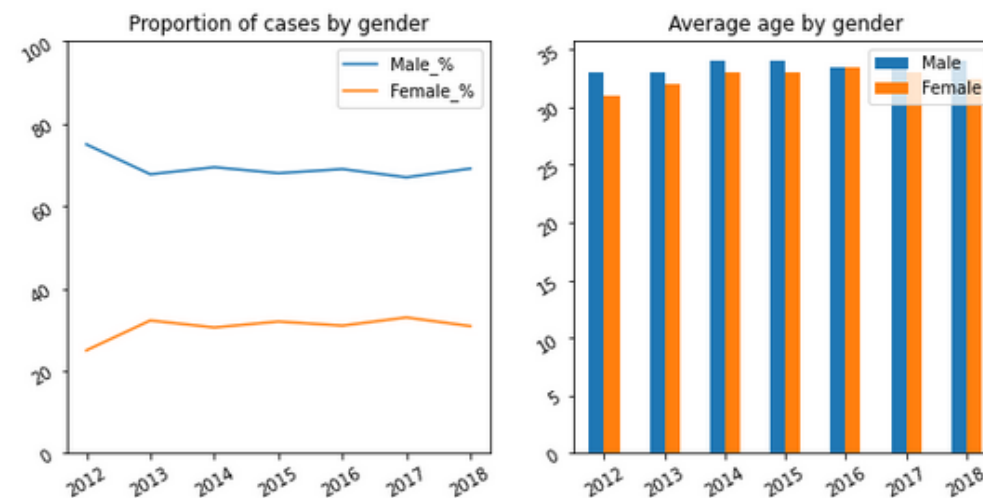
# Next steps
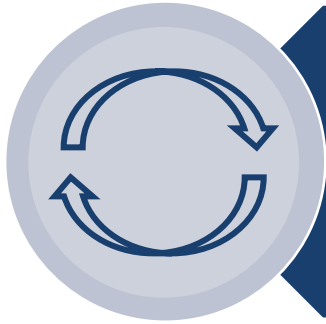
**Optimizing and expanding the process**

**Increasing statistical measures and report detail**

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